USER MANUAL

LaserPower II Series Models

ANSCHÜTZ®

DIE MEISTER MACHER

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1 Components / Terminology

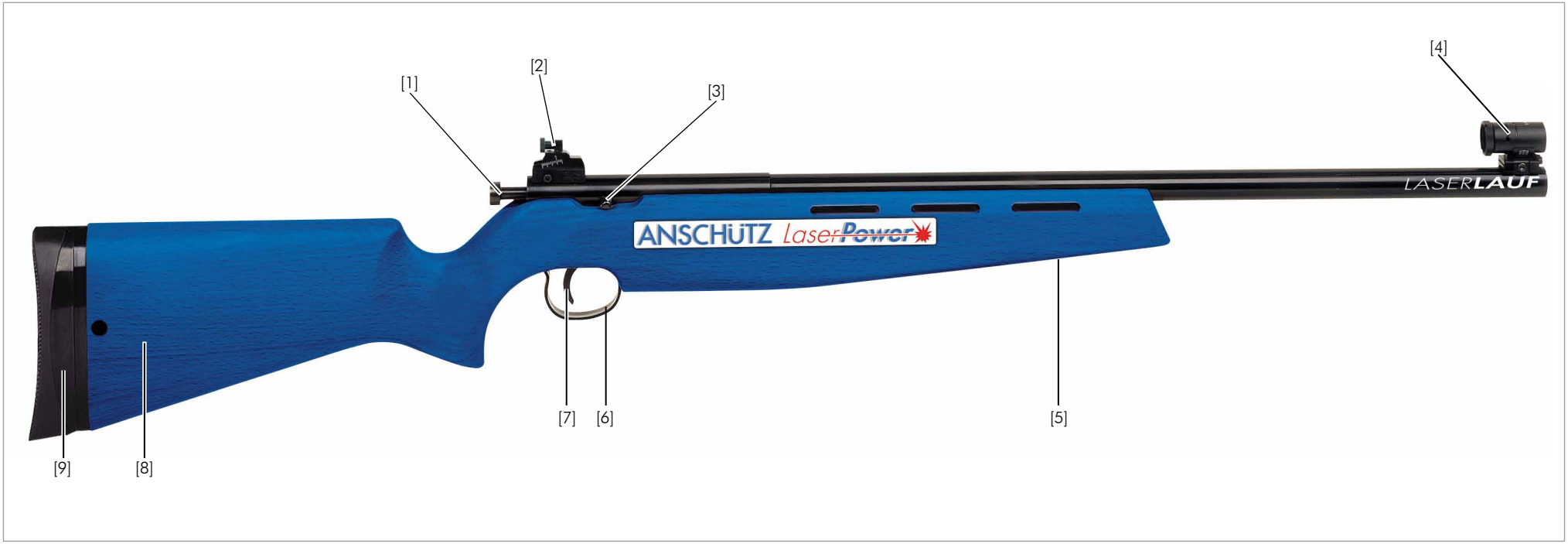


Fig. 1 Overall view of the LaserPower II rifle

[1] Loading button
[2] Rear sight
[3] Trigger safety (if present)
[4] Front sight
[5] Battery compartment cover
[6] Trigger guard
[7] Trigger
[8] Stock
[9] Buttplate (adjustable)

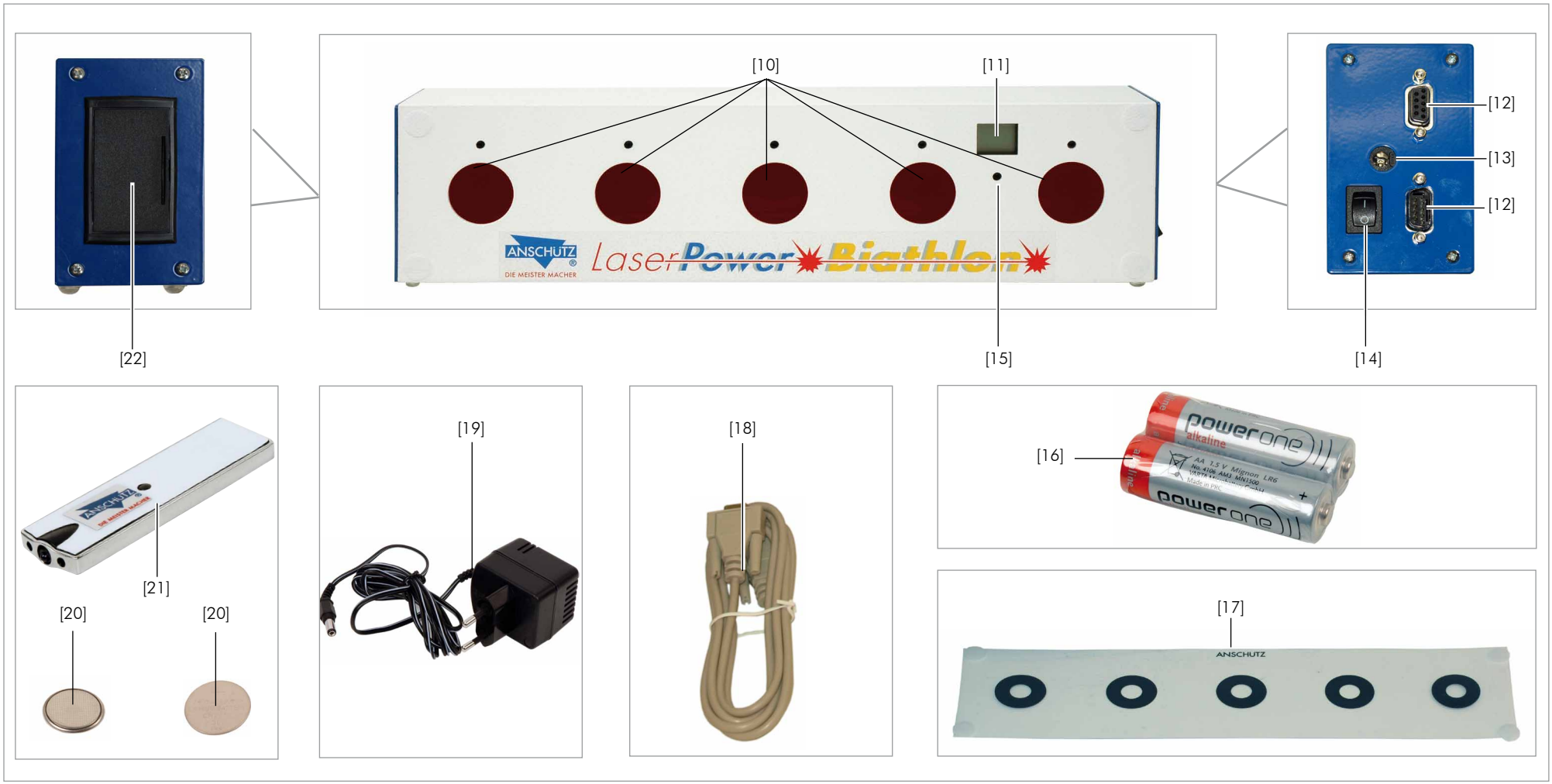


Fig. 2 Overall view of LaserPower II accessories

[10] Biathlon target / target zone (5 pcs.)
[11] Information display
[12] RS-485 interface
[13] Power unit connection socket
[14] On/Off switch
[15] Infrared receiver
[16] Batteries for the biathlon target (2x AA)
[17] Target reducer
[18] RS-485 interface cable
[19] Power unit (6 volt)
[20] Batteries for the remote control (2x CR 2016)
[21] Remote control
[22] Battery compartment

2 Introduction

Thank you for choosing an ANSCHÜTZ product.
Many spectacular sporting successes have been achieved by marksmen, olympians and shooters in world and European championships using ANSCHÜTZ sporting rifles. ANSCHÜTZ hunting and sporting rifles are highly reputed as a result of their well-engineered design, workmanship and outstanding shooting performance. Quality and precision are a part of our tradition, and have grown as a result of our experience since 1856.

We wish you much pleasure and sporting success with your new ANSCHÜTZ product.

Your ANSCHÜTZ team.

3 Key to Symbols

In this handbook, the following symbols are used for particularly important information:

▶ is the symbol for an instruction

✓ shows the desired result

• is the symbol for a list item

⚠ ***identifies a safety instruction***

NOTE!

An instruction indicating a particular course of action.

CAUTION!

Indicates a hazardous situation that can lead to minor physical injury or material damage.

WARNING!

Indicates a hazardous situation that can lead to serious physical injury or death.

3.1 General instructions

Although the ANSCHÜTZ LaserPower II Set is a safe item of sporting equipment, it can nevertheless present risks as a result of incorrect use or failure to comply with the operating instructions. Storage and use therefore require particular care. The following safety and warning instructions must be observed without exception!

NOTE!

The user's handbook must be read carefully before using the LaserPower II Set.

⚠ *The LaserPower II Set must not be exposed to rain, snow or other moisture.*

⚠ *The LaserPower II Set may only be used at temperatures between +70 °C and 0 °C.*

⚠ *It should only be used with dry hands.*

The LaserPower II Set must be protected from:

- high temperatures,
- extreme temperature fluctuations,
- direct sunlight,
- excessive dust,
- excessive cigarette smoke and
- mechanical vibration or shocks.

3.2 Safety instructions

CAUTION!

Misoperation!

Incorrect handling and failure to comply with the operating instructions.

➤ Observe the operating instructions.

CAUTION!

Material damage and minor physical injury!

Unauthorised opening of the LaserPower II Set.

➤ The LaserPower II Set may only be opened by qualified specialists.

⚠ *In the event of malfunctions or the appearance of smoke or smells, the LaserPower II Set must be checked by a qualified specialist.*

⚠ *No foreign objects must be allowed to get into the LaserPower II Set.*

⚠ *Servicing work may only be carried out by qualified specialists.*

⚠ *Only original LaserPower II power units may be used with the LaserPower II Set. Third-part products or even power units from previous LaserPower models will damage the target unit.*

CAUTION!

Material damage and minor physical injury!

Foreign objects in the LaserPower II Set.

➤ Protect the LaserPower II Set from entry of foreign objects and liquids (eg. when changing the batteries).

⚠ *The batteries must be removed if the LaserPower II Set is not to be used for long periods.*

⚠ *When transporting the LaserPower II Set from a cold areas to a warm area, it is necessary to wait for approximately one hour before switching it on.*

NOTE!

Although the LaserPower II rifle is not a firearm as defined by firearms legislation, care must be taken that the barrel is always held in a safe direction and is never pointed at people.

4 Legal

NOTE!

The applicable firearms legislation, regulations and provisions of the respective territory and also the safety rules of the hunting and sporting organisations must be observed.

5 Intended use

The ANSCHÜTZ LaserPower II Set is designed exclusively for shooting at the biathlon target. The hits are displayed by means of a light signal on the biathlon target and are reset by remote control. The 5-panel biathlon target is designed to detect and register a Class 1 laser pulse. This is intended to be done at a distance of 10 metres. The current diameters of the targets are in line with the regulations for the summer biathlon that are in force at present (as of June 2004).

6 Liability

ANSCHÜTZ will accept no liability or claims for compensation for damage of any kind arising from:

- failure to comply with the instructions in this user's handbook,
- improper treatment or repair,
- use of non-original ANSCHÜTZ parts,
- incorrect handling or care,
- negligence,
- removal of the sealing paint,
- unauthorised tampering or
- transport damage.

CAUTION!

Altering or tampering with the LaserPower II Set or its components is forbidden and may breach the terms of the guarantee. Alterations of this kind can have an adverse effect on the safe use of the product and lead to accidents that endanger life and limb. In such cases the guarantee is automatically void.

7 Inserting / replacing the batteries

7.1 LaserPower II rifle

▶ Unscrew the battery compartment cover [5] (on the underside of the stock).

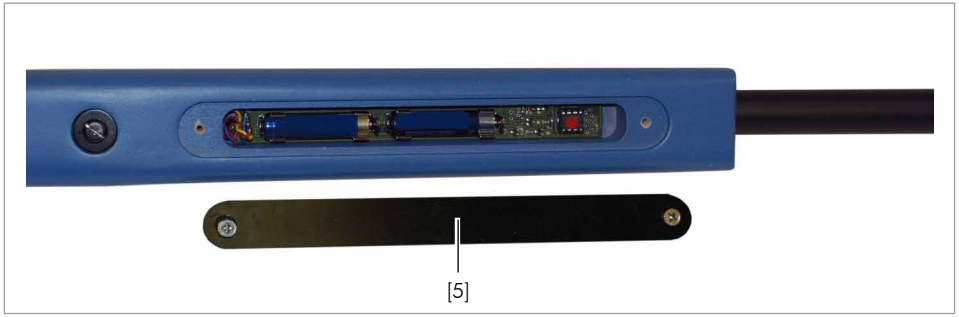


Fig.3 Battery compartment cover opened

▶ Insert the batteries (2 x AAA), observing the correct polarity.

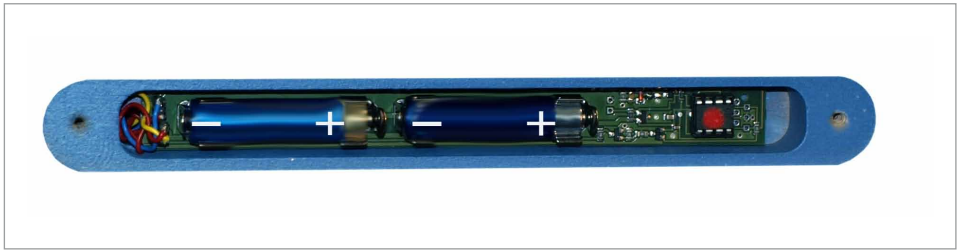


Fig.4 Inserting the batteries

▶ Screw the battery compartment cover [5] on to the underside of the stock.

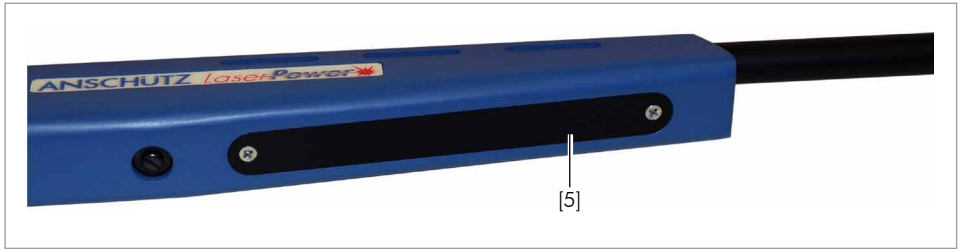


Fig.5 Battery compartment cover closed

NOTE!

If the LaserPower II rifle is not to be used for long periods, the batteries must be removed to prevent damage due to leakage or corrosion.

NOTE!

The life of the batteries in the LaserPower II rifle depends on the frequency of use. With frequent use, it is entirely possible for the batteries to be drained within 1-2 days.

NOTE!

Only batteries of the same brand and the same type may be used together.

The batteries must always be replaced at the same time (do not fit old and new batteries together).

NOTE!

Batteries are hazardous waste and do not belong in household refuse. The national regulations for the disposal of used batteries must be observed.

7.2 Biathlon target

▶ Remove the battery compartment cover [22].

NOTE!

To open the battery compartment, a small screw-driver or a fingernail must be hooked into the small slot [v] on the outer edge of the cover, the tab [w] pushed carefully (without applying force) in the direction of the long slot [x] (see direction of arrow) and the battery compartment cover lifted out.

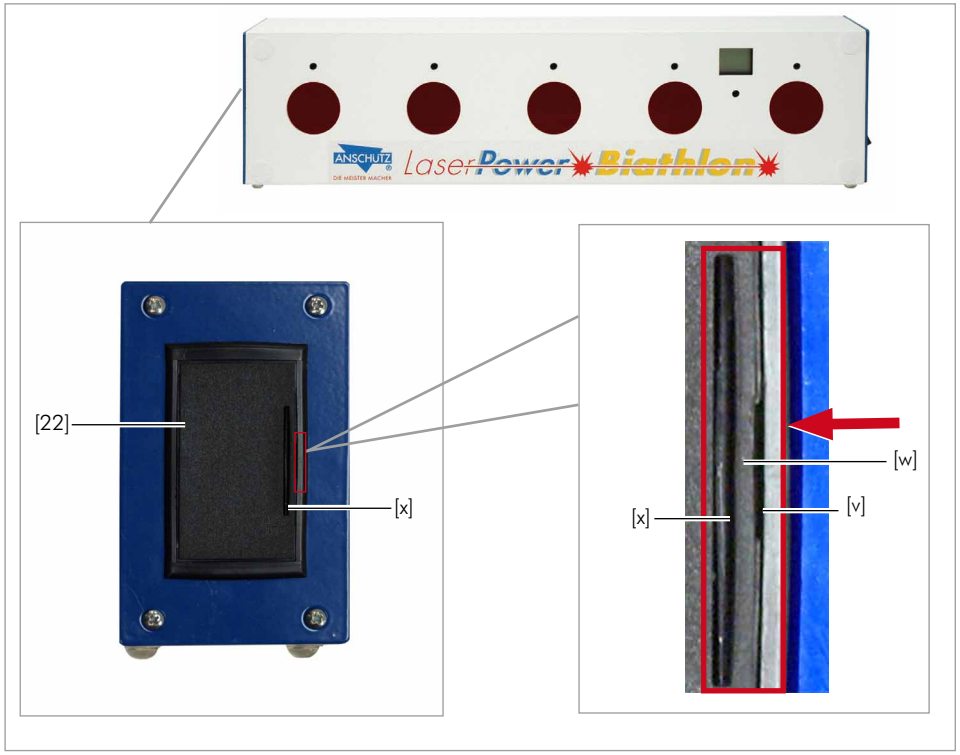


Fig.6 Battery compartment cover

▶ Insert the batteries (2 x AA), observing the correct polarity.

Fig.7 Inserting the batteries

▶ Refit the battey compartment cover [22].

Fig.8 Battery compartment cover closed

NOTE!

If the biathlon target is not to be used for long periods, the batteries must be removed to prevent damage due to leakage or corrosion.

NOTE!

The life of the batteries in the biathlon target depends on the frequency of use. With frequent use, it is entirely possible for the batteries to be drained within 1-2 days. A low battery charge condition in the biathlon target is indicated by a "LO" in the display.

NOTE!

Only batteries of the same brand and the same type may be used together.

The batteries must always be replaced at the same time (do not fit old and new batteies together).

NOTE!

Batteries are hazardous waste and do not belong in the household refuse. Used batteries must be disposed of in the used battery container.

Mains unit

The biathlon target can also be powered from the mains if desired. The battery circuit is interrupted (switched off) when the power unit is connected. Therefore it is not necessary to remove the batteries when using mains power.

CAUTION!

The mains unit supplied is intended exclusively for the LaserPower biathlon target. Do not use it for other units.

For operating at mains voltage you must only use the genuine ANSCHÜTZ mains unit (voltage 6 Volt)!

Please also observe the country-specific stipulations in this matter!

Intended use of the mains unit:

Unilateral modification and/or changing the mains unit is not permitted for safety and certification reasons (CE).

Any other use than that described is not permitted and can lead to damaging the product or short circuits, fires or electrocution.

NOTE!

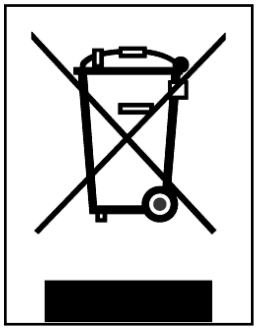
The warranty/guarantee will become invalid for damage caused by non-observance of this operating instruction manual! We accept no liability for consequential losses! We accept no liability for material damage or personal injury caused by improper handling or non-observance of the safety instructions. In these cases, the warranty/guarantee becomes invalid.

Safety instructions:
To maintain the technically perfect condition of the unit and to guarantee safe operation, you must always observe the safety instructions and warnings.

- Ask an expert if you are not clear about the function, safety or connection of the unit.
- Store away from access by children!
- Keep small parts etc. away from children and pets.
- In commercial buildings, comply with the accident prevention stipulations for electrical equipment and devices of the relevant professional association.
- The hands, shoes and clothes and the floor and mains unit must remain dry during use.
- Do not connect the mains unit if you have brought it from a cold room into a hot room. The condensation produced can destroy the unit. The unit must be allowed to warm up to room temperature before switching it on.
- The mains unit warms up in use. Ensure adequate ventilation.
- Do not leave the mains unit and connected unit unsupervised during operation.
- Pull the mains unit from the plug socket if the unit is not being used for an extended period.
- In the event of a malfunction, separate the unit from the plug socket.
- In order to separate the unit completely from the mains, separate the mains unit from the plug socket or the adapter from the unit.
- Mains units are not intended for use on humans or animals.
- Use under adverse conditions (e.g. moisture, too high humidity, dust, flammable gases, vapours or solvents) is not permitted.
- Take the unit out of service if:
  - there are visible indications of damage,
  - it stops functioning perfectly,
  - it has been stored under unfavourable conditions or
  - it has been exposed to severe loading during transport.
- Also observe the additional safety instructions in each chapter of this operating instruction manual.

Maintenance and cleaning of the mains unit:
The mains unit does not need any maintenance. Never dismantle the unit because otherwise the CE approval and the warranty/guarantee becomes invalid. In order to prevent damage, it should only be repaired by an expert or a specialist workshop.
Clean the mains unit only with a soft non-fraying cloth. Do not use any cleaning agents. Dust can be removed with a soft paintbrush or a vacuum cleaner.

Disposal of the mains unit:
Worn out and defective units must be taken to public collection points for electrical waste.



7.3 Remote control

NOTE!

You can use a remote control to operate more than one target unit at the same time, since the remote control and target unit are not made to match each other in each case.

Two CR 2016 button cells [20] are required for the remote control unit.

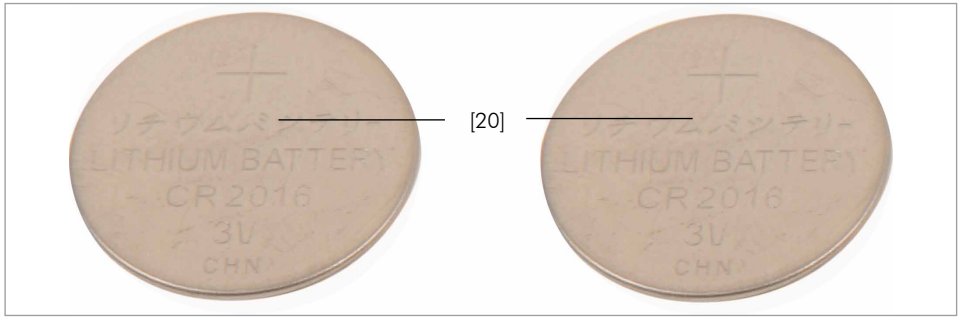


Fig.9 Button cells

▶ Open the battery compartment cover (on the rear side of the remote controller) with a suitable tool.

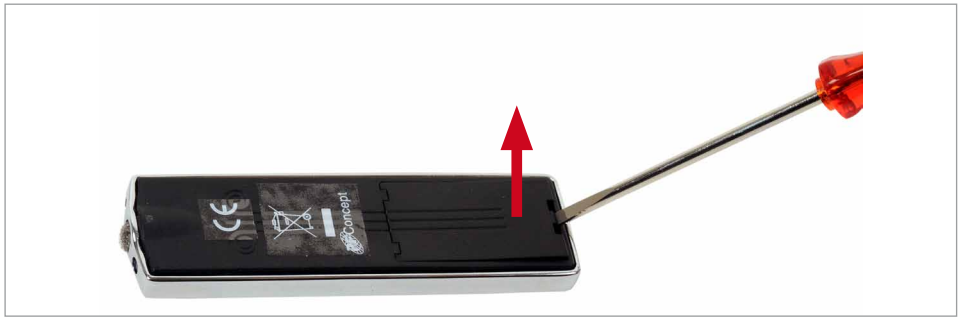


Fig.10 Opening the battery compartment

✓ The battery compartment is now open.

▶ Remove the CR 2016 button cells [20] from the remote control unit [21] (see arrow).

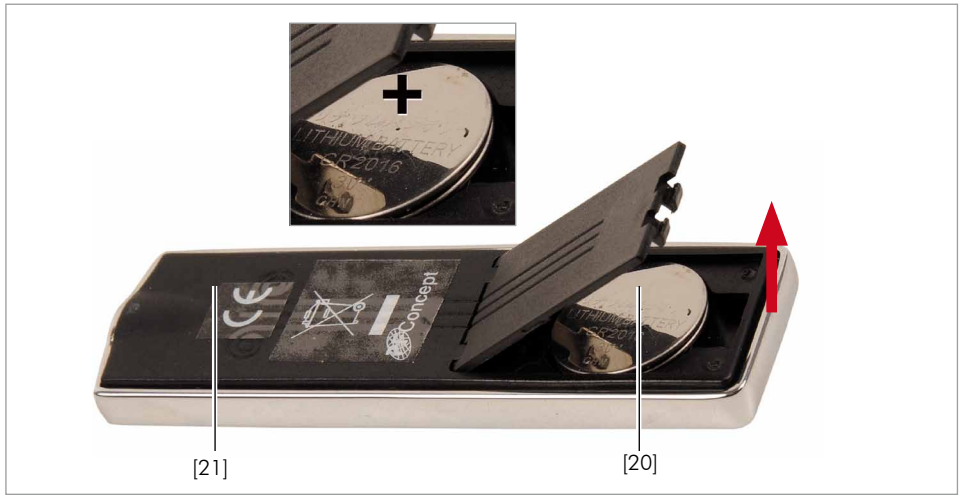


Fig.11 Battery compartment open

▶ Replace the batteries (the "+" terminals must face upwards).

▶ Close the battery compartment cover again.

Fig.12 Battery compartment cover closed

8 Shooting

▶ Switch the biathlon target on (On/Off switch [14] to "I").

Fig. 13 Switching on the biathlon target

▶ Press the loading button [1] on the LaserPower II rifle, aim and pull the trigger [7].

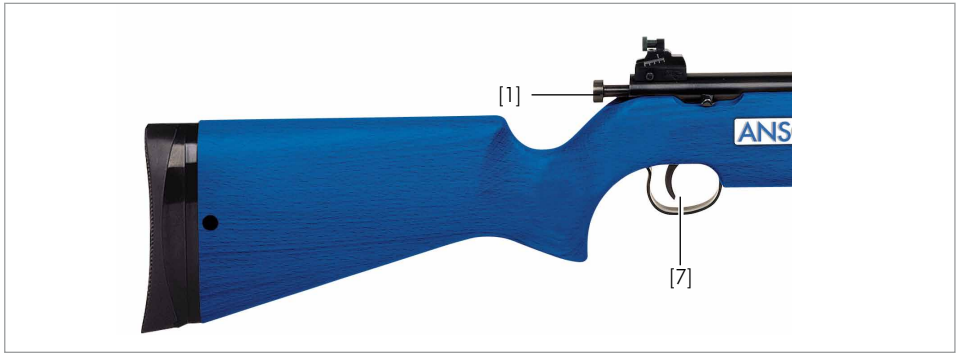


Fig.14 Loading and shooting

✓ Hits are displayed by a green light signal on the biathlon target.

The hits display is reset using the remote control [21].

▶ Point the remote control [21] at the biathlon target and press the button.

✓ The biathlon target is reset when all the lights go out.

8.1 Engaging the safety on the LaserPower II rifle

The trigger safety at the side [3] (where present) can be operated when the rifle is cocked. The safety is engaged when the safety catch is in the rear position (direction of arrow).

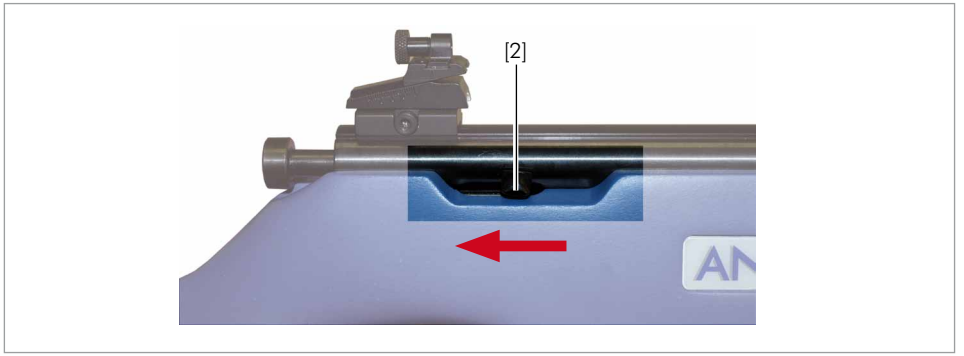


Fig.15 Trigger safety

8.2 Releasing the safety on the LaserPower II rifle

The safety on the LaserPower II rifle is released when the safety catch (where present) is in the forward position (direction of arrow).

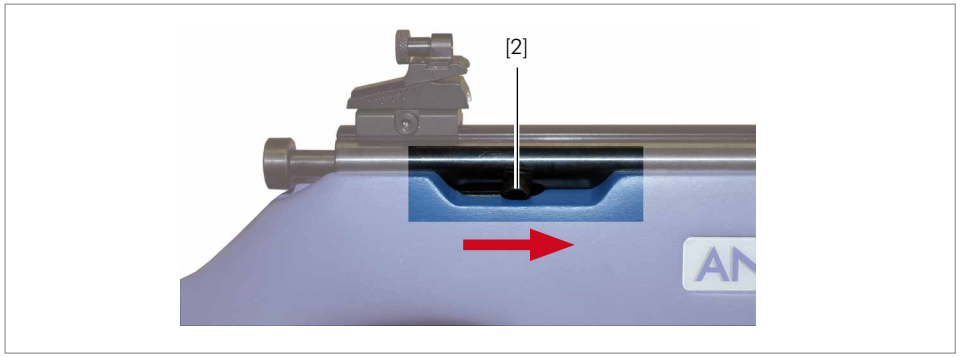


Fig.16 Trigger safety

8.3 Target reducer

The target reducer [17] and the biathlon target [10] are provided with Velcro pads.

▶ To fasten the target reducer [17] to the biathlon target [10], press the reducer [17] on to the target [10] using light pressure (the attachment points on the two components must be facing each other).

✓ The target reducer can be quickly attached and removed as required.

8.4 Laser alignment

The laser is factory set to a range of 10 metres.

For varying distances, the use of a rear sight from the ANSCHÜTZ range of accessories is recommended. The alignment is then carried out using the rear sight adjustment.

8.5 Rear sight adjustment

The ANSCHÜTZ LaserPower II rear sight can be adjusted both vertically and horizontally.

Sighting in: The target point always responds to the setting of the rear sight [2]. Moving the rear sight [2] to the right causes the shot to be displaced to the right. Moving the sight upwards causes the shot to be displaced upwards.

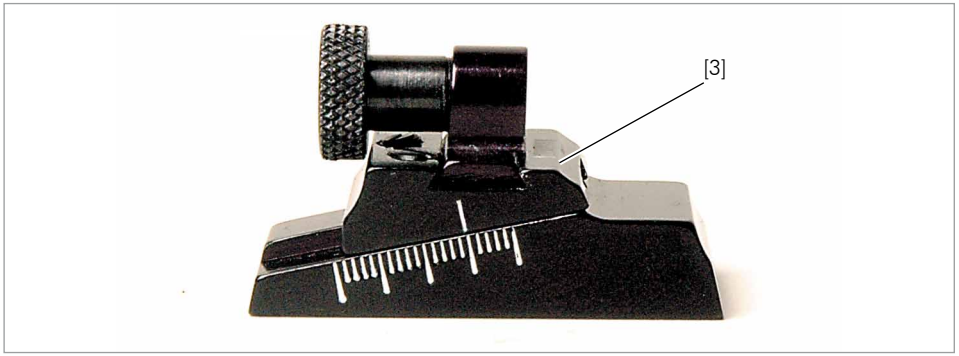


Fig.17 Rear sight

▶ To access the adjusting screws, unscrew the aperture [x].

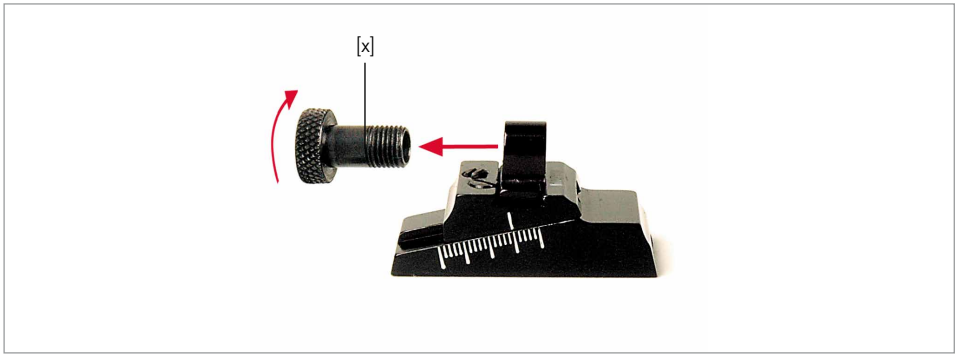


Fig.18 Removing the aperture

▶ For vertical adjustment, loosen screw [a] on the left hand side of the sight by approximately half a turn.

▶ Slide the sight [b] up or down the dovetail and tighten the screw [a] again.

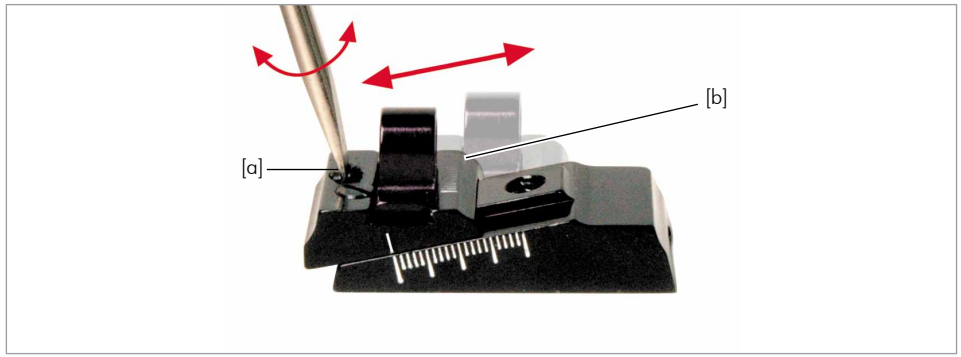


Fig.19 Rear sight adjustment

▶ For horizontal adjustment, loosen screw [c] on the right hand side of the sight [b] by approximately half a turn.

▶ Slide the sight [b] to the right or the left and tighten the screw [c] again.

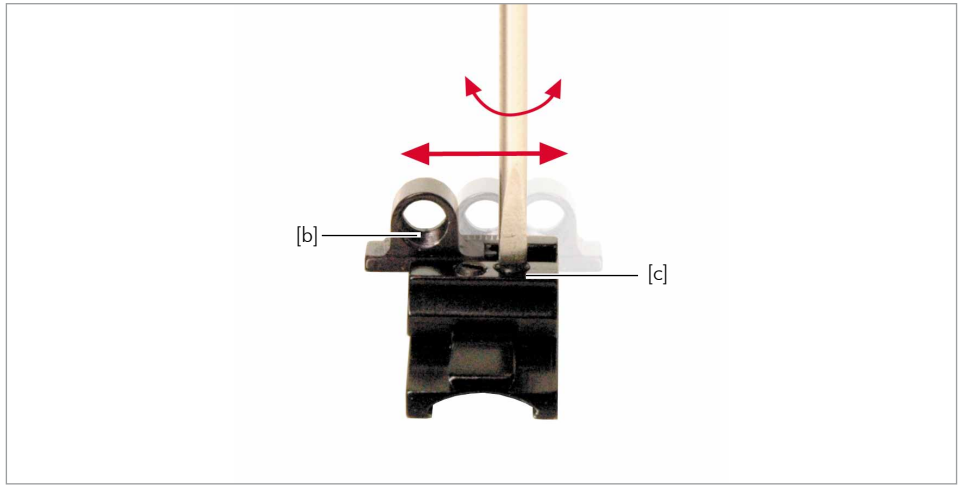


Fig.20 Rear sight adjustment

9 Maintenance / cleaning

⚠ *The inside of the barrel of the LaserPower II rifle must always be kept free of dirt, dust, snow, etc.*

⚠ *A soft, dry cloth must be used to clean the LaserPower II Set.*

⚠ *For stubborn dirt, the cloth can be moistened slightly and soaked with a mild cleaning agent.*

⚠ *Dry the LaserPower II Set with a soft cloth.*

CAUTION!

Physical damage!

Damage to the product caused by chemicals.

➤ No abrasives, scouring pads, alcohol, paint thinners, petrol or cloths that have been treated with chemicals may be used to clean the LaserPower II Set.

10 PC interface

NOTE!

The relevant instructions of the PC and the software manufacturers must be observed.

For competition purposes, the biathlon target can be connected, eg. to a PC, using the RS-485 interface cable [18]. (2 targets can also be interconnected using the interface cable).

▶ Connect the RS-485 interface cable [18] to the interface [12] on the biathlon target and, using eg. an RS-485/USB adapter (not shown), to a PC.

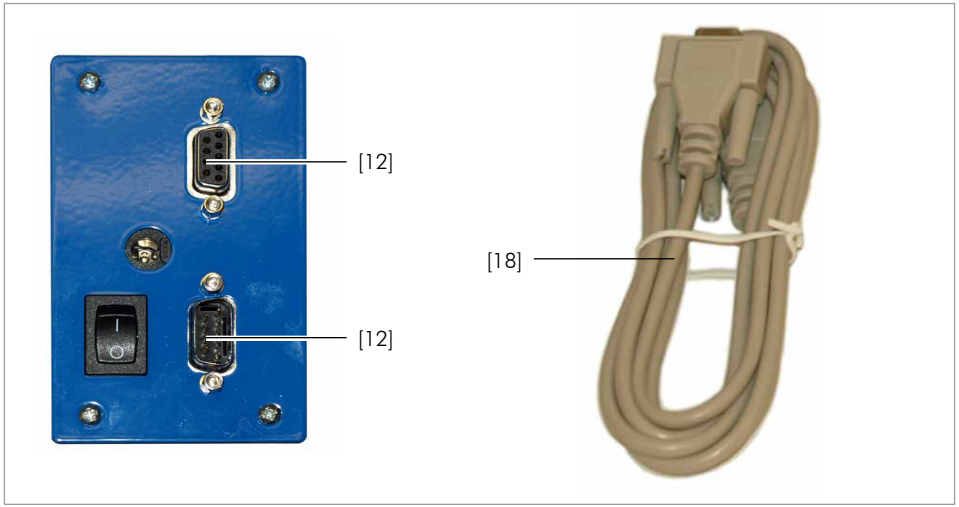


Fig.21 Interface

✓ The biathlon target is connected to a PC.

NOTE!

ANSCHÜTZ does not itself market any software, nor does it offer any software support.

NOTE!

Up to 99 biathlon targets can be interconnected over the RS-485 interface [12] and evaluated using appropriate software (competition mode). The targets are automatically configured with a unique consecutive target number, which is indicated in the information display [11].

It is also possible to supply power to several biathlon targets via the RS-485 cable [18] when only one power unit [19] is available. In this case, however, a maximum of only 6 targets can be supplied with power from the power unit [19].

11 Technical data

Weight	approx. 2.2 kg
Overall length of LaserPower II rifle	95 cm
System length	66 cm
Laser classification	Class 1 (≤ 1 mW)
Batteries for LaserPower II rifle	2 x AAA
Batteries for remote control	2 x CR 2016 lithium cells
Batteries for biathlon target	2 x AA
Biathlon target interface	RS-485
Biathlon target operating time (LED on)	approx. 24 hours
Biathlon target operating time (LED off)	approx. 150 hours
LaserPower II rifle operating time	approx. 1 year
Remote control operating time	approx. 1 year

12 Troubleshooting

Fault diagnosis on the LaserPower II Set

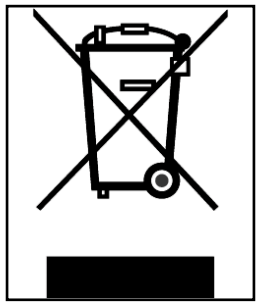
Fault	Possible cause	Remedy
Rifle:		
No laser spot	Batteries too low	Replace batteries
	Laser actuator defective	Send for repair
Laser not exactly on target	Laser not aligned correctly	Send for alignment
Trigger does not release	Trigger not cocked	Cock the LaserPower
	Trigger safety engaged	Release trigger safety
Biathlon target:		
Laser hits but target does not light up	Target not switched on	Switch on target
	"LO" (Low battery) appears in display Batteries are flat	Replace batteries
	When operating with plug-in power unit	Connect power
		Replace plug-in power unit
Target does not respond with every shot	"LO" (Low battery) appears in display Batteries are flat	Replace batteries
	Original plug-in power unit being used?	Use original plug-in power unit

Important: When operating with a plug-in power unit, only use the unit supplied with the set [19], as otherwise damage to the biathlon target can occur!

Remote control:		
Range too short	Batteries low	Replace batteries
	Does not even function close in	Send both remote control and biathlon target for repair

13 Disposal

Before disposal, the LaserPower II Set must first be broken down into its component materials.



14 Miscellaneous

Additional information is available on the Internet at www.anschuetz-sport.com.

ANSCHÜTZ provides news on this product and other products in the ANSCHÜTZ Newsletter, which you can sign up to for free on the Internet.

www.anschuetz-sport.com

15 Guarantee

<<< WARRANTY >>>

1. Material: This product has been released for sale after the product itself, its materials and individual components have been subjected to strict inspection, or the rifle has demonstrated its durability and function during test shooting. J.G. ANSCHÜTZ GmbH & Co. KG offers a full guarantee covering material and manufacturing faults (excluding broken stocks and springs) for a period of two years, provided that the fault can be shown to have been present at the time of handover of the product. No warranty claims will be accepted by J.G. ANSCHÜTZ GmbH & Co. KG for faults that are the result of improper use or unauthorised repairs. The item will either be repaired or replaced at our discretion. Claims for compensation - put forward for any legal reason whatsoever – are excluded.

2. Shooting Performance: The purchaser undertakes to inform J.G. ANSCHÜTZ GmbH & Co. KG in writing of any faults detected in shooting performance within one month of purchase with the submission of their own shooting record. J.G. ANSCHÜTZ GmbH & Co. KG reserves the right to transfer the rifle to an independent agency for inspection (DEVA or a national ballistics office). Should such an agency confirm excellent shooting performance, J.G. ANSCHÜTZ GmbH & Co. KG is entitled to charge the purchaser the costs of the rifle inspection. The accepted warranties do not apply to rifle damage resulting from mechanical effects and improper use or care by the purchaser. The warranty is excluded if the rifle has been repaired or modified by unauthorised persons. Likewise, the warranty is cancelled when using reloaded ammunition or ammunition which is not CIP approved.

In the event of a warranty/damage claim please enclose this card, completed and signed by your dealer, with the product.

ANSCHÜTZ®
DIE MEISTER MACHER

J.G. ANSCHÜTZ GmbH & Co. KG · Jagd- und Sportwaffenfabrik
Postfach 1128 · D-89001 Ulm/Germany · www.anschuetz-sport.com

SERIAL-NO.: _____

DATE: _____

THIS ITEM WAS BOUGHT FROM: *(Stamp and signature of dealer)*